On site Activities (preliminary) Program

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Updated as of Oct 6, 2025

The program will be continuously updated.

NetWare 2025: https://www.iaria.org/conferences2025/ProgramSECURWARE25.html

SocSys 2025: https://www.iaria.org/conferences2025/ProgramMODERNSYSTEMS25.html

TechWorld 2025: https://www.iaria.org/conferences2025/ProgramEXPLAINABILITY25.html

SustainableDigitalization 2025: https://www.iaria.org/conferences2025/ProgramCOCE25.html

Timezone converter: https://www.worldtimebuddy.com

Session conference	Room #A	Room #B	Room #C
rooms	Room #A	Room πB	Room #C
Plenaries		Room #A	

Sunday, Oct 26

11:00	Registration starts The registration desk is located in front of the conference rooms Open during the entire conference
12:30 - 12:45	Welcome session
12:45 - 13:30	Tutorial I Theme: The Anatomy of Agentic Frameworks and Practical Use Cases Speaker Prof. Dr. Petre Dini, IARIA, USA/EU Chair
13:30 - 13:45	Coffee
13:45 - 14:30	Session 1 [GREEN]
14:30 - 14:45	Coffee Break
14:45 - 15:45	Tutorial II Theme: To be announced Speaker Chair

15:45 - 16:15	Coffee
	Tutorial III
	Theme: Systems Thinking within the Systems Engineering Paradigm
16:15 - 17:15	Speaker
10.13 - 17.13	Prof. Paul Martin, University of Maryland, USA / CEO SE-Scholar / INCOSE, USA
	Chair
17:15 - 17:30	Coffee
	Tutorial IV
17:30 - 18:45	Theme: Secure Software Development
17.30 - 10.43	Prof. Dr. Aspen Olmsted, Wentworth Institute of Technology, USA
	Chair
19:00 - 20:00	Welcome Cocktail

Monday, Oct 27

	Keynote Speech	
Theme: Reconnaissance	to Resilience: A Threat-Led l	Kill Chain Perspective on
Ransom	ware and Emerging AI-Driver	n Threats
Speaker		
Prof. Dr. Alexander Lawall, IU Internationale Hochschule GmbH, Germany		
	Chair	
Eugen Borcoci		
Coffee Break		
C 2 ICECUDIVA DEL	Session 5	Session 8 [CSRF]
Session 2 [SECURWARE]	[SENSORCOMM]	
Coffee		
G . 4		Session 9 [PANDEMICS
5 4552011 4	ANA	ANALYTICS]
[SECURWARE]	PREDICTIONS]	
Lunch on your own		
Session 4 [MODERN	a	
SYSTEMS.		Session 10 [COCE]
SENSORCOMM]	[EXPLAINABILITY]	
Coffee break		
	Panel #1	
Theme: Cybersecurity Resilience Challenges		
Moderator		
	Panelists	
	Ransom Prof. Dr. Alexander La Session 2 [SECURWARE] Session 3 [SECURWARE] Session 4 [MODERN SYSTEMS, SENSORCOMM]	Theme: Reconnaissance to Resilience: A Threat-Led I Ransomware and Emerging AI-Driver Speaker Prof. Dr. Alexander Lawall, IU Internationale Hochs Chair Eugen Borcoci Coffee Break Session 2 [SECURWARE] Session 5 [SENSORCOMM] Coffee Session 3 [SECURWARE] Session 6 [VEHICUALR, PREDICTIONS] Lunch on your own Session 4 [MODERN SYSTEMS, SENSORCOMM] Coffee break Panel #1 Theme: Cybersecurity Resilience Ch Moderator

Tuesday, Oct 28

	Keynote Speech
	Theme: To be announced
09:00 - 10:00	Speaker
	Chair

10:00 - 10:30	Coffee Break		
10:30 - 12:15	Session 11 [GREEN, SOCIETY TRENDS]	Session 14 [EXPLAINABILITY]	Session 17 [COCE]
12:15 - 12:30	Coffee		
12:30 - 14:00	Session 12 [HEALTHINFO]	Session 15 [MODERN SYSTEMS, AIVTS]	Session 18 [CEEE]
14:00 - 15:30	Lunch on your own		
15:30 - 17:00	Session 13 [HEALTHINFO]	Session 16 [SECURWARE]	Session 19 [CSRF]
17:00 -17:30	Coffee break		
17:30 - 19:00	Panel #2 Theme: Health and Digital Services Moderator Panelists		

Wednesday, Oct 29

		Keynote Speech	
09:00 - 10:00	Theme: To be announced		
09.00 - 10.00		Speaker	
		Chair	
10:00 - 10:30		Coffee Break	
10:30 - 12:15	Session 20	Session 22 [SENSORDEVICES,	Session 24 [HEALTHINFO]
10.30 - 12.13	[SECURWARE]	CENICS]	Session 24 [HEALTHINFO]
12:15 - 12:30		Coffee	
12.20 12.20	Session 21	Session 23 [PANDEMICS	TBD
12:30 -13:30	[SECURWARE]	ANALYTICS/COAI]	160
13:30 – 15:00	Lunch on your own		
		Panel #3	
15:00 - 16:45		Theme: Complex Systems	
15:00 - 10:45	Moderator		
		Panelists	
16:45 - 17:15	Coffee break		
	Open Discussion #1		
17:15 -19:00		Theme: Digital and AI Litera	acy
		Moderators	
19:30 -23:30		Conference Dinner	
17.30 -23.30		Novotel Hotel	

Thursday, Oct 30

	Keynote Speech
	Theme: Path Planning Advances in Multi-UAV Networks
	Speaker
09:00 - 10:00	Prof. Dr. Eugen Borcoci, National University of Science and Technology
	POLITEHNICA Bucharest, Romania
	Chair
	TBD

10:30 - 10:30	Coffee Break
	Panel #4
10:30 - 12:15	Theme: Sustainability
10.50 - 12.15	Moderator
	Panelists
12:15 - 13:45	Lunch on your own
13:45 - 15:30	Session 25 [CADAT]
15:30 - 15:45	Coffee
15:45 -17:00	TBD
17:00 - 17:30	Coffee break
	Open Discussion #2
17:30 - 18:00	Theme: Accessibility and AI-based Services
	Moderators
18:00 – 18:15	Closing Session
10.00 - 10.13	Farewell

Recommended tourist objectives to be visited on your own:

• General information: www.barcelonatourguides.com

• Contact: info@barcelonatourguides.com

Barcelona

Prepare your best places to see in Barcelona: https://youtu.be/XVqpOCPg_Y4

- Park Güell
- Sagrada Familia
- Picasso Museum
- Gaudi Museum
- Museum of Catalan Art
- Montjuic Hill
- La Rambla
- La Marina

Girona

Salvador Dali Museum [one day trip from Barcelona]

Detailed Sessions

Session 1 [GREEN] Room A Sunday - early afternoon

Session Chair:

80014 Brains Without Brawn: Evaluating CPU Performance for Code Generation with Large Language Models Miren Illarramendi Rezabal, Mondragon Goi Eskola Politeknikoa JMA S.Coop, Spain

Session 2 [SECURWARE] Room A Monday - morning

Session Chair:

30036 Comparison of Password-Authenticated Key Exchange Schemes on Android Jörn-Marc Schmidt, IU Internationale Hochschule GmbH, Germany

30046 The Balanced Chance & Cyber Risk Card: Extending Reichmann's Multidimensional Controlling Framework for C Level Steering in German SMEs Maik Drozdzynski, IU International University, Germany

30071 Quantifying Persuasion - A Comparative Analysis of Cialdini's Principles in Phishing Attacks Alexander Lawall, IU International University of Applied Sciences, Germany

30085 A Comparative Study of Machine Learning and Quantum Models for Spam Email Detection Fan Wu, Tuskegee University, USA

Session 3 [SECURWARE] Room A Monday - early afternoon

Session Chair:

30036 Comparison of Password-Authenticated Key Exchange Schemes on Android Jörn-Marc Schmidt, IU Internationale Hochschule GmbH, Germany

30046 The Balanced Chance & Cyber Risk Card: Extending Reichmann's Multidimensional Controlling Framework for C Level Steering in German SMEs Maik Drozdzynski, IU International University, Germany

30061 A Modular and Flexible OPC UA Testbed Prototype for Cybersecurity Research Sebastian Kraust, OTH Regensburg, Germany

Session 4 [MODERN SYSTEMS, SENSORCOMM] Room A Monday - afternoon Session Chair:

10019 Q-Learning Performance on the CartPole Environment Under Observation Noise and Reward Variants Fan Wu, Tuskegee University, USA

10011 A Group-Based Access Coordination Scheme for Low-Latency and High-Throughput IoT over IEEE 802.11ah

Seung-ha Jee, Songshan Women's University, Republic of Korea Il-Gu Lee, Sungshin Women's University, Republic of Korea

10025 A Time-based Sensor Data Analysis for Pre-Fall Prediction using Machine and Deep Learning Approaches

Nazia Pathan, Queen Margaret University, UK

Session 5 [SENSORCOMM] Room B Monday - morning

Session Chair:

10030 Machine Learning-Based Joint TX Power and RX Sensitivity Control for Overlapping Basic Service

Set Interference Mitigation in Dense Internet of Things Wireless Networks JinMin Lee, Sungshin Women's University, Republic of Korea

10034 ScreenLeak: Exploiting Screen Savers for Covert Long-Distance Data Exfiltration and Defense Ye-Rim Jeong, Sungshin Women's University, Republic of Korea

10038 Invisible Watermarking for Image Data Protection in Sensor Network Environments Seo-Yi Kim, Sungshin Women's University, Republic of Korea

Session 6 [VEHICUALR, PREDICTIONS] Room B Monday - early afternoon Session Chair:

30005 Context-Aware Forecasting of Mobile Network Quality for Autonomous Vehicle Connectivity Mathias Gerstner, OTH Regensburg, Germany

30006 Prioritization of 9-1-1 Emergency Calls Using Fusion of Audio Signal Analysis and Speech-to-Text Transcription for Accurate Urgency Classification Simin Mirzaei, UBC, Canada

Session 7 [EXPLAINABILITY] Room B Monday - afternoon

Session Chair:

10009 Identifying Confusion Trends in Concept-based XAI for Multi-Label Classification Haadia Amjad, TUD | Dresden University of Technology, Germany

10012 CAT in the box: A CausalAI - Tsetlin machine duo Jalpa Soni, Capitole Consulting, Spain

10019 Explainability Analysis for Skill Execution Khatina Sari, Hochschule Bonn-Rhein-Sieg, Germany

Session 8 [CSRF] Room C Monday - morning

Session Chair:

10052 Agrotourism Gamification for Farmer Empowerment Pedro Goncalves, Instituto de Telecomunicacoes, Portugal

10059 Differences in Exit Propagation of by Cuttings for Cistus ladanifer and Cistus Cyprius Pedro Vicente Mauri Ablanque, Instituto madrileño de Investigación y desarrollo rural, agrario y almientario (IMIDRA), Spain

10064 Efficiency of Rainfed Wheat Production: A Global Assessment Using Data Envelopment Analysis Amir Dadrasi, Univerzita Karlova, Czecha Republic

Session 9 [PANDEMICS ANALYTICS]

Session Chair:

20005 Stochastic compartment model of epidemic spreading in complex networks with mortality and resetting Thomas Michelitsch, CNRS/Sorbonne Université, France

20008 Statistical and Predictive Analysis to Identify Risk Factors and Effects of Post COVID-19 Syndrome Milad Leyli-abadi, IRT SystemX, France

Session 10 [COCE] Room C Monday- afternoon

Session Chair:

30008 Multi-source Constrained Machine Learning for Oceanic Parameters Forecasting Austin Schmidt, University of New Orleans, USA Mahdi Abdelguerfi, University of New Orleans, USA

30031 Machine learning using physics-based backscattering modeling for acoustic identification of mesopelagic organisms

Sander Andre Berg Marx, University of Bergen (UIB), Norway

30035 Accelerating HEC-RAS: A Recurrent Neural Operator for Rapid River Forecasting Edward Holmberg, University of New Orleans, USA

Session 11 [GREEN, SOCIETY TRENDS] Room A Tuesday - morning

Session Chair:

80021 Energy Management of PV-Batteries System for a Rural Micro-Grid Application in Guinea Mohamed Lamine Toure, Universite Le Havre Normandie, France

80029 Electric behavior characterization of lithium iron phosphate batteries as a function of operating temperature

Ibrahima Toure, Universite Le Havre Normandie, France

40008 Using 2D and 3D Desktop Based Virtual Avatar Environments to weaken Zoom Fatigue in Tertiary Education

Gerhard Hube, University of Applied Sciences Würzburg-Schweinfurt, Germany

Session 12 [HEALTHINFO] Room A Tuesday - early afternoon

Session Chair:

90061 Discrimination by Deep Learning of 1Hz Difference in Auditory Cortex using fMRI Activation Patterns Kyoko Shibata, Kochi University of Technology, Japan Yoshitaka ooyashiki, Kochi University of Technology, Japan

90067 From Text to Code: Predicting Abbreviated Injury Scale 2015 from Clinical Narratives Chien-Ming Lee, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Taiwan

90072 Hypothermia and Its Association with Mortality Among Major Trauma Patients in a Tropical Climate: A Retrospective Study from Southern Taiwan

Pei-Ling Lee, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Taiwan

Session 13 [HEALTHINFO] Room A Tuesday - afternoon

Session Chair:

90076 From Hospitals to Researchers: A Data-Trustee Infrastructure to Search and Use FHIR-Data for Retrospective Medical Research

Carolin Poschen, Trier University of Applied Sciences, Germany

90094 Using a Large Data Model Explorer to Maintain a Healthcare Information System Francisco Javier Bermúdez Ruiz, University of Murcia, Spain

90115 Using Data and Artificial Intelligence to Enable Successful Hospital at Home Programs Jamie McGlothlin, RSM US LLP, United States

Session 14 [EXPLAINABILITY] Room B Tuesday - morning

Session Chair:

10024 RanXplain: Explaining Rankings in Recommendation Systems Atakan Yilmaz, Trendyol, Turkey Nuray Eylul Erler, Trendyol, Turkey Emre Atilgan, Trendyol, Turkey

10030 Bridging the Domain Gap: Evaluating Fact-Grounded Knowledge Graph Narratives for Explainable AI in Clinical Decision Support Valentin Göttisheim, Furtwangen University, Germany

10044 Explaining the medical record: a research agenda for non-medical practitioners Ray Jones, University of Plymouth, UK

Session 15 [MODERN SYSTEMS, AIVTS] Room B Tuesday - early afternoon

Session Chair:

10016 An Interference-Aware vCPU Scheduling Framework for Paravirtualized Real-Time Industrial Control **Systems**

Jessica Müller, Bosch Rexroth AG, Germany

50022 Design Feasibility and Link Budget Assessment of Aerial 5G IoT and eMBB Connectivity Jyrki Penttinen, Alphacore Inc., USA

50032 Design of Infrastructure-Based Prescriptive Control Use Cases in Cooperative Autonomous Driving Hye jin LIM, ITS KOREA, South Korea

Session 16 [SECURWARE] Room B Tuesday - afternoon

Session Chair:

30028 General Conversion Scheme of Card-based Protocols for Two-colored Cards to Updown Cards - The Number of Cards for Computing an Arbitrary Function Takumi Sakurai, Nagoya University, Japan

Yuichi Kaji, Nagoya University, Japan

30030 From ECU to VSOC: UDS Security Monitoring Strategies Ali Recai Yekta, Yekta IT GmbH, Germany

30034 DeepAuthVerify - A Modular Framework for Deepfake Detection in Facial Authentication Systems Kristina Schaaff, IU International University of Applied Sciences, Germany

Session 17 [COCE] Room C Tuesday - morning

Session Chair:

30003 Evaluating Hyperparameter Selection Techniques for the Ratio-Coupled Loss Function Austin Schmidt, University of New Orleans, USA

30016 Simulation-Based Study of Propulsion and Control of an AUV in Current-Affected Environments Mefti Aymen, Ecole Militaire Polytechniques, Algeria

30021 Operationalizing and Testing Machine Learning Models for Acoustic Target Classification Nils Olav Handegard, Institute of Marine Research, Norway

30028 Semi-Supervised Object Detection for Marine Life Monitoring using Temporal Information Ketil Malde, Institute of Marine Research, Norway

Session 18 [CEEE] Room C Tuesday – early afternoon

Session Chair:

40019 Global Energy Transition – Issues and Options Puja Bhetwal, RIZQ/YUNUS WEFnex Hub AIT, Thailand Mahmood Ahmad, RKH-WEFnex, Thailand

40023 Comparative Analysis of PM2.5 Air Quality Between Old and Newly Developed Residential Areas in Karbala City Using a Low-Cost Monitoring System Hussein Abd Ali Hatif Alsaadi, Al-Zahrawi University College, Karbala, Iraq

Session 19 [CSRF] Room C Tuesday - afternoon

Session Chair:

10014 An Evaluation of the Use of Sensors for the Detection of Emissions in Slurry Management Jacqueline Humphries, Technological University of the Shannon, Ireland

10023 Cereals Supply-chain Traceability using Blockchain and IoT Technology George Adamides, Agricultural Research Institute, Cyprus

10045 Effect of Mobile Agrivoltaic Shading on the Growth and Yield of Coriander (Coriandrum Sativum L.) under Field Conditions in Poland

Anna Wenda-Piesik, Bydgoszcz University of Science and Technology, Poland

10047 Induction of Volatile Organic Compounds in Chrysanthemum Plants Following Infection by

Rhizoctonia Solani [PRESENTATION]
Dariusz Piesik, PBS Bydgoszcz University of Science and Technology, Poland

Session 20 [SECURWARE] Room A Wednesday - morning

Session Chair:

30015 Threat-Based Vulnerability Management: Mapping CVEs to the MITRE ATT&CK Framework Logan McMahon, Queen's University Belfast, Northern Ireland

30018 Secure Software Brownfield Engineering – Sequence Diagram Identification Aspen Olmsted, Wentworth Institute of Technology, USA

30023 Identification of Dual Processes Using Power Side-channels Niklas Lindskog, Ericsson, Sweden

Session 21 [SECURWARE] Room A Wednesday - afternoon

Session Chair:

30066 Towards Post-Quantum-Ready Automated Certificate Lifecycle Management in Operational Technology Ayham Alhulaibi, Maschinenfabrik Reinhausen Regnsburg, Germany

30074 A Modified Schnorr Sigma Protocol and Its Application to Isogeny-Based Identification Mahda Mahdavi Oliaee, Fundació per a la Unversitat Oberta e Catalunya, Spain

30057 Improving Crypto-Agility in Operational Technology through Exchangeable Smart Cards Tobias Frauenschläger, OTH Regensburg, Germany

Session 22 [SENSORDEVICES, CENICS] Room B Wednesday - morning

Session Chair:

20022 Development of an Artificial Fingertip with a High-Sensitivity 3-Axis Force Tactile Sensor Embedded for Robotic Hands

Bo-Gyu Bok, Korea Research Institute of Standards and Science, Republic of Korea

20026 Fast, Sensitive and Distributed Optical Fiber Detection of Hydrogen Gas [PRESENTATION] Kévin Touchet, CEA, France

20037 Spectral and Angular Analysis of Reflectance in Mobile Robot Prototypes under Controlled Artificial Lighting Wednesday OR Thursday Andre Schneider de Oliveira, UTFPR, Brazil

50006 Adaptive Architectures for Forward Error Correction Sergei Sawitzki, FH Wedel (University of Applied Sciences), Germany

Session 23 [PANDEMICS ANALYTICS/COAI special track] Room B Wednesday - early afternoon

Session Chair: Les Sztandera

Accepted papers to be announced

Session 24 [HEALTHINFO] Room C Wednesday - morning

Session Chair:

90119 Leveraging Observational Medical Outcomes Partnership (OMOP) Data to Populate Disease Registries Jamie McGlothlin, RSM US LLP, USA

90105 Electronic Health Records and the Archival Question: Shared Responsibility as a Panacea Mehluli Masuku, Sorbonne University Abu Dhabi, United Arab Emirates

Session 25 [CADAT] A Thursday - early afternoon

20014 Advanced Statistical Analysis of Physiological and Spectral Traits for the Early Detection of Xylella fastidiosa in Almond Trees

José Ramón Torres-Martín, Universidad Rey Juan Carlos, Spain